

Bacteria TMDL Development for the **Meherrin River** **Watershed**

**Mecklenburg, Lunenburg, Charlotte,
Prince Edward, and Brunswick Counties**

**Includes Meherrin River, North Meherrin River, Great Creek, Genito
Creek, and Briery Branch**

First Public Meetings

August 25, 2009

Victoria, VA



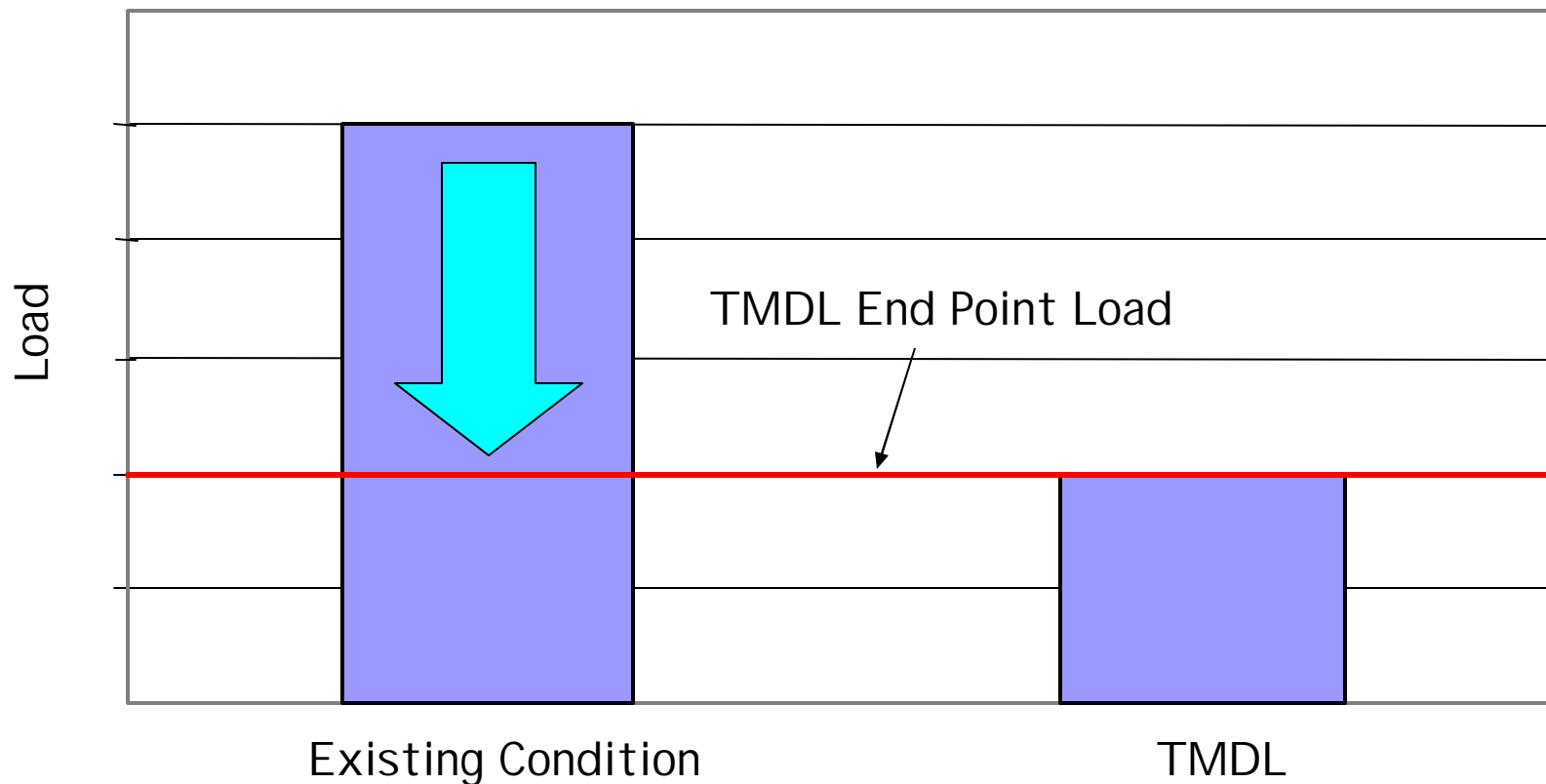
What is a TMDL?

TMDL = Total Maximum Daily Load =
maximum amount of a pollutant that can
exist in a waterbody without violating
water quality standards (WQS)

WQS = numeric or narrative limits on
pollutants that ensure the protection of
human health and of aquatic life



A Visual Example of a TMDL



Reducing existing bacteria load to the TMDL end point load is expected to restore water quality.

Why are TMDL studies necessary?

- TMDLs must be developed for water bodies that do not meet water quality standards for their designated uses.
- Impaired waters occur throughout Virginia in lakes, streams, and tidal waters.
- In Virginia, ~1100 TMDLs due by 2020

Designated Uses

- ❑ Primary Contact (Swimming)
- ❑ Public Water Supply
- ❑ Aquatic Life
- ❑ Fish Consumption
- ❑ Shellfish Consumption
- ❑ Wildlife

People involved in the Process:

- ❑ Virginia Department of Health
- ❑ Virginia Department of Conservation and Recreation
- ❑ Contractor (Map Tech)
- ❑ Other State Agencies, Local Governments and Planning Districts
- ❑ U.S. Environmental Protection Agency and other appropriate federal agencies
- ❑ Citizens groups, educational institutions environmental groups, & local business
- ❑ **YOU!**

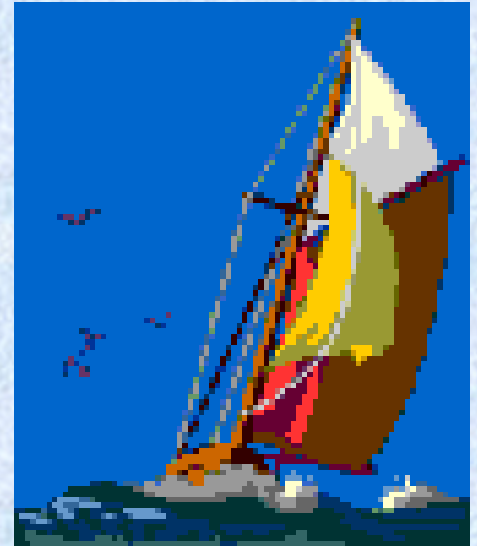


What information is used to develop a TMDL?

- ❑ Bacteria monitoring data
- ❑ Population estimates for humans, pets, wildlife, livestock (Census, VIMS, DCR, DGIF, & the public)
- ❑ Affected waters flow & volume
- ❑ Bacterial Source Tracking Data (BST)
- ❑ Land Use, Climate, Tide, etc.
- ❑ DEQ permit data
- ❑ DEQ spill response and remediation data

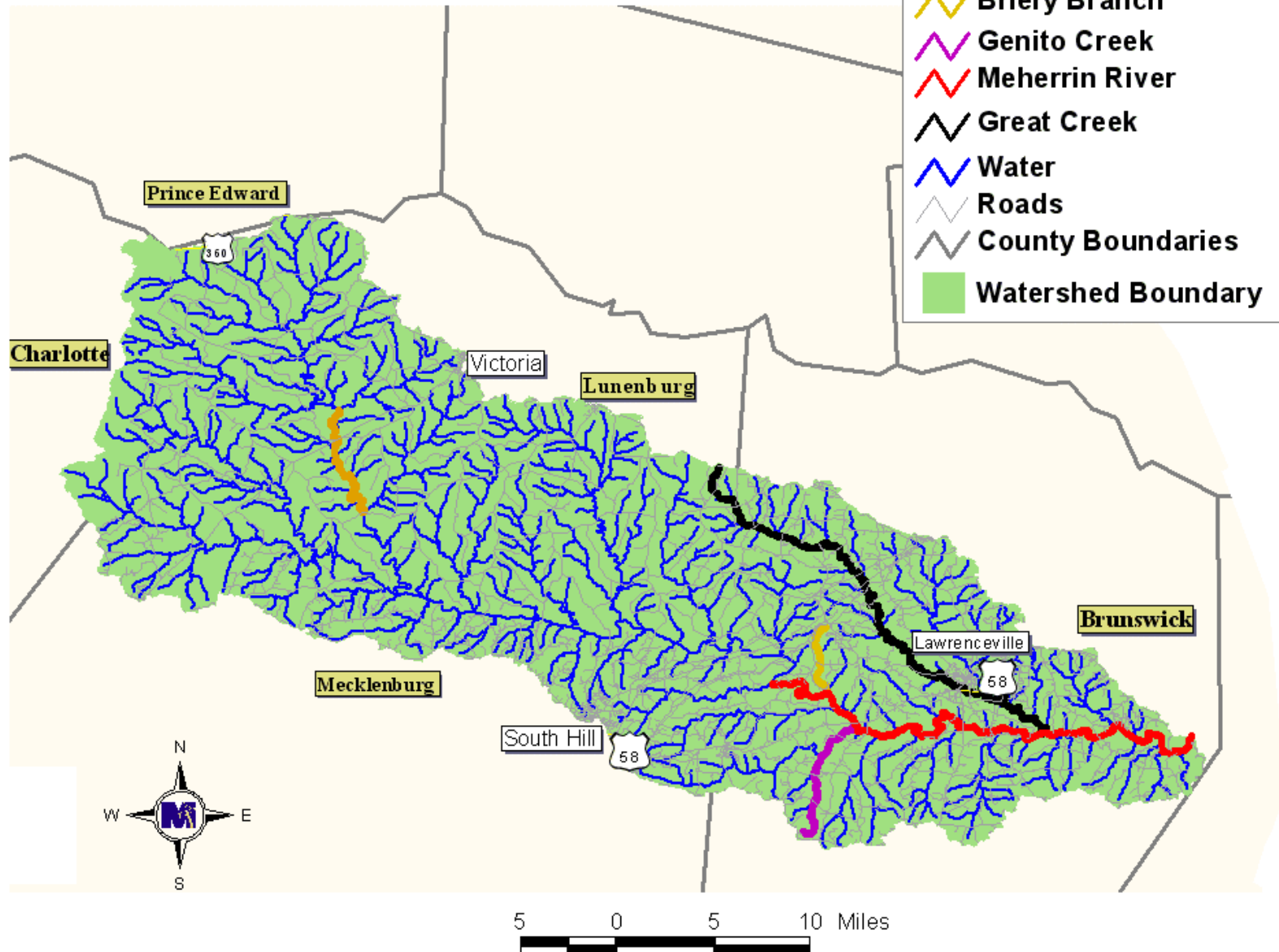
Virginia's TMDL Development

- TMDL study
- Implementation Planning
- Implementation
- Post Monitor and Report on Progress



= = > * * Many opportunities for public
input and participation! * *

Meherrin Watershed



How can you help?

PARTICIPATE IN THE DEVELOPMENT OF TMDL AND IMPLEMENTATION PLANNING!

- ❑ Attend TMDL development meetings & implementation planning meetings
- ❑ Verify our data
- ❑ Comment on the draft TMDL report during 30 day public comment period
- ❑ Minimize runoff from property
 - install pervious surfaces vs. impervious surfaces
 - Rainbarrels, raingardens, etc.
- ❑ Don't feed wildlife!!! Educate your neighbors!
- ❑ Pick up after pets
- ❑ Maintain septic systems (5-yr pump-out)

Next Steps...

□ 30 Day Public Comment Period

*****Ends September 30th, 2009*****

- Send comments with the name, address, and telephone number of the commenter. All comments will receive a response!

SEND Comments TO: DEQ - Piedmont Regional Office
Attn: Margaret Smigo
4949-A Cox Road
Glen Allen, VA 23060
Margaret.Smigo@deq.virginia.gov

- DEQ/Map Tech will continue working on developing TMDL
- Final public meetings tentative for mid-Fall

Questions??

Presentations and other handouts available at:
<http://www.deq.virginia.gov/tmdl/mtgppt.html>

TMDL Website: <http://www.deq.virginia.gov/tmdl>

